



**INTERNATIONAL TROPICAL
TIMBER COUNCIL**

**COMMITTEE ON
REFORESTATION AND FOREST MANAGEMENT**

Distr.
GENERAL

CRF(L)/5
20 September 2016

ENGLISH ONLY

FIFTIETH SESSION
7-12 November 2016
Yokohama, Japan

REVISED DRAFT

**GUIDELINES FOR ENVIRONMENTAL AND SOCIAL RISKS AND
IMPACTS ASSESSMENT IN ITTO PROJECTS**

Prepared for International Tropical Timber Organization (ITTO)

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ACRONYMS AND ABBREVIATIONS

| | |
|--------|--|
| AAC | Annual allowable cut |
| ATO | Africa Timber Organization |
| CBO | Community-based organization |
| CBNRM | Community-based natural resources management |
| C.&I. | Criteria and indicators |
| ESIA | Environmental and social impact assessment |
| ESCP | Environmental and social commitment plan |
| ESS | Environmental and social standard |
| FAO | United Nations Food and Agricultural Organization |
| FPIC | Free prior and informed consent |
| GEF | Global Environment Facility |
| GEWE | Gender equality and women's empowerment |
| GHG | Green house gas |
| IFC | International Finance Corporation |
| IUCN | International Union for Conservation of Nature |
| HQs | Headquarters |
| ITTA | International Tropical Timber Agreement |
| ITTO | International Tropical Timber Organization |
| NAMA | Nationally Appropriate Mitigation Action |
| NGO | Non-governmental organization |
| NTFP | Non-timber forest product |
| PFE | Permanent forest estate |
| REDD+ | Reducing emissions from deforestation and forest degradation |
| RIL | Reduced impact logging |
| SEP | Stakeholder engagement plan |
| SFM | Sustainable forest management |
| TBCA | Transboundary biodiversity conservation |
| UNDP | United Nations Development Programme |
| UNCED | United Nations Conference on Environment and Development |
| UNFCCC | United Nations Framework Convention on Climate Change |
| UNEP | United Nations Environment Programme. |

1. INTRODUCTION

Modifications made in the revised version of the draft ITTO's ESIA Guidelines

Environmental and social risks and impacts assessment (ESIA) is a useful tool for understanding and managing the impacts and risks and mitigation measures of a field project. A good ESIA is carried out through scientific analysis of baseline and projected conditions of a development initiative, and stakeholder involvement. The ESIA process helps institutional proponents identify the critical social and environmental issues associated with a project, and ensures that positive impacts are optimized and negative impacts are minimized or mitigated. In addition, an effective ESIA process can improve stakeholders understanding of the whole project, increasing their ownership of its results, as well as increasing its sustainability.

The first version of the Draft guidelines for environmental and social risks and impacts assessment (ESIA) in ITTO Projects was written by two consultants, James Gasana (Switzerland) and Ricardo Umali (Philippines) in September 2015. It was presented by James Gasana to the Committee on Reforestation and Forest Management (CRF) at its 49th Session in November 2015 under Document CRF(XLIX)/13. The Committee discussions were summarized in the CRF Report to ITTC, under Document CRF(XLIX)/15. One of the points of that summary is the recommendation that, given the importance of the draft ESIA guidelines, a new streamlined and user-friendly version be presented for further review at next session of the Committee. Upon this recommendation, the Committee decided to continue discussion on the draft ESIA guidelines at its next session in November 2016.

Based on the Committee's decision, the Draft has been simplified and streamlined with the engagement of the two consultants in conformity with CRF's recommendation. In addition to streamlining the sections with general information, the main chapter "ITTO ENVIRONMENTAL AND SOCIAL REQUIREMENTS" is simplified and more user-friendly. In its main part, the revised Draft has three chapters: overarching policy and principles; ITTO's management of environmental and social risks and impacts at project level; and environmental and social requirements.

1.1 Background

1. Social and environmental sustainability are important dimensions in ITTO projects, particularly in the areas of forest management and reforestation, and forest industry. They have always been fundamental to the achievement of development outcomes in those projects as they are in line with one of the Organization's objectives of contributing to sustainable development. The ITTO Guidelines for Environmental and Social Risks and Impacts Assessment (ESIA) come to further strengthen this commitment by providing a tool for systematic mainstreaming of environmental and social sustainability in its field projects.
2. ITTO has funded more than 750 projects, pre-projects and activities submitted by member countries in the areas of forest management and reforestation, forest industries, and economic information and market intelligence. Evidence from ex-post evaluations of more than 500 projects has shown that generally these actions do no harm to the environment. A Meta-evaluation of all previously evaluated projects conducted in 2011 (Simula, El-Lakany and Tomaselli, 2011) has shown that ITTO projects have contributed to the achievement of sustainable development, and have had a positive impact in sustainable forest management (SFM), including restoration and rehabilitation of degraded forests, reforestation and plantations; and development of community forest management and enterprise.

3. Although the performance of ITTO's projects on environmental sustainability has generally been satisfactory, there is an increasing need to pay due attention to social sustainability¹ which has to be integrated with environmental sustainability in the ESIA tools in order to provide the opportunity to avoid, minimize, mitigate and manage the adverse environmental and social impacts of the projects in line with the following two objectives of the ITTA 2006, listed under its Article 1:
 - Paragraph c: "Contributing to sustainable development and to poverty alleviation";
 - Paragraph r: "Encouraging members to recognize the role of forest-dependent indigenous and local communities in achieving sustainable forest management and develop strategies to enhance the capacity of these communities to sustainably manage tropical timber producing forests".
4. ITTO's ESIA Guidelines will strengthen the effectiveness of other related ITTO's technical Guidelines and will provide additional guidance to enable ITTO members design and implement quality projects. They constitute a new tool for screening and categorization of proposals that will strengthen the existing project appraisal process and allow ITTO to address the ESIA requirements.

1.2 Objectives of ITTO's ESIA Guidelines

5. The ITTO ESIA Guidelines are about ensuring that its field projects contribute to environmental and social sustainability goals in beneficiary countries. Their objective is to define ITTO' Environmental and Social Standards (ESS) and their respective requirements, and to clarify the Environmental and Social Impact Assessment and Risk Management processes, which will be used to: (i) enhance positive environmental and social opportunities and benefits from the Organization's thematic programs and projects; (ii) to ensure that adverse environmental and social risks and impacts are avoided, minimized, mitigated and managed; (iii) to increase the effectiveness of other ITTO's tools on implementing sustainable forest management in addition to underpinning and demonstrating the Organization commitment to sustainable development; and (iv) to assist ITTO and project executing agencies to manage environmental and social risks and impacts of projects.

1.3 Scope of ITTO's ESIA Guidelines

6. ITTO's ESIA Guidelines provide tools that govern the process of determining a project's environmental and social category and the resulting environmental and social assessment requirements. They can be used iteratively as design (for project proponents) and appraisal tools (for ITTO) from the earliest stages of project identification. Pre-screening proposals will help to ensure that the proponents consider and integrate social and environmental sustainability issues into the project design, which will enhance the quality of the project and the chance of earlier approval by the ITTC. The ESIA process allows therefore to address environmental issues in a timely and cost-effective way during project design, preparation and implementation. The ESIA is not meant to replace other ITTO Guidelines or project appraisal tools; instead it complements them as it includes environmental and social effects of the projects, and takes into account climate change. Though ESIA is applied at the project level, there is a need to institutionalize ESIA in policy and planning activities to ensure that the environmental effects of policies can be evaluated in a much wider context and the cumulative effects assessed and monitored.

1.4 Target audience of ITTO's ESIA Guidelines

7. The target audience of these ESIA Guidelines is principally:
 - ITTO Secretariat
 - ITTO project implementers
 - ITTO project proponents;

¹ For definitions of key terms and concepts see Glossary in Annex 1.

but also:

- ITTO's Members
- Donors
- ITTO projects partners and stakeholders
- ITTO Projects' consultants and contractors.

1.5 Related ITTO Guidelines consulted

8. The related ITTO Guidelines consulted are:

- ✓ ITTO Voluntary Guidelines for Sustainable Management of Natural Tropical Forests (2015);
- ✓ ITTO/IUCN Guidelines for the Conservation and Sustainable Use of Biodiversity in Tropical Timber Production Forests (2009);
- ✓ Simplified ITTO criteria and indicators for SFM.
- ✓ ITTO guidelines for the restoration, management and rehabilitation of degraded and secondary tropical forests
- ✓ ITTO guidelines for the establishment and sustainable management of planted tropical forests.
- ✓ (DRAFT) ITTO Guidelines on gender equality and women's empowerment

1.6 Structure of the Guidelines

9. The document starts with an Introduction, followed by chapter 2, which defines overarching principles for ITTO ESIA processes. Chapter 3, "ITTO Management of Environmental and Social Risks at Project Level" develops the tool for assigning categories to proposals. Chapter 4, "Environmental and Social Requirements" defines the minimum requirements that projects should meet under different standards. The Main text is followed by Annexes.

2. OVERARCHING POLICY AND PRINCIPLES

10. There is a close relationship between environmental and social impacts of projects, which requires identifying principles that are the cornerstones of decision-making in ITTO's integrated ESIA. Five principles have been identified to underpin ITTO's ESIA processes; they include three normative principles (environmental sustainability, social sustainability, and gender equality), and two enabling principles (forest governance and security of tenure). They are described in continuation.

Principle 1: Environmental sustainability

As sustainable development remains a developmental issue, environmental sustainability is fundamental to human development and wellbeing.

11. The goal of sustainability is at the heart of ITTO's Mandate. Article 1 of ITTA, 2006 states that "The objectives of the International Tropical Timber Agreement, 2006 (...) are to promote the expansion and diversification of international trade in tropical timber from sustainably managed and legally harvested forests and to promote the sustainable management of tropical timber producing forests (...)". The most known tool produced by ITTO to implement its vision of sustainability is the "Revised ITTO criteria and indicators for the sustainable management of tropical forests" or C. & I. ITTO provided operational definitions of sustainable forest management in its successive editions of Guidelines for sustainable Management of Natural Tropical Forests. ITTO (1992) defines SFM as "the process of managing forest to achieve clearly specified objectives of management, with regard to the production of a continuous flow of desired forest products and services, without undue reduction in the forest's inherent values and future productivity, and without undue undesirable effects on the physical and social environment".

Principle 2: Social sustainability

The commitment to sustainable development requires social sustainability to be the cornerstone of the work of development projects and it should be built in the project proposals

12. Environmental sustainability and social sustainability cannot be treated as unconnected components of sustainable development. A socially sustainable development approach is one in which policy efforts do not shy away from the multiple interdependent processes and situations that predispose the poor and the vulnerable in rural communities to harm from shocks and change. Recognizing the interdependence between environmental and social sustainability should be at the core of ITTO's development programs and projects.

Principle 3: Gender equality

Promoting the achievement of Gender Equality is an essential component of sustainable human development, in conformity of one of ITTO's objectives of contributing to sustainable development (Article 1, paragraph c).

(Draft ITTO Guidelines for Achieving Gender Equality and Empowerment of Women).

13. ITTO has formulated Guidelines on Gender Equality and Women's Empowerment (GEWE), whose objectives are: (i) to promote GEWE in achieving the objectives of the ITTA, 2006 and (ii) to advance women's equal participation with men as decision makers in ITTO processes and as equal beneficiaries of ITTO's effort to support sustainable tropical forest management and tropical timber trade in its member countries. Gender impact assessment in ESIA should therefore be part of social assessment and carried out if it is established that a project submitted to ITTO for financing may not have adverse impacts on gender relations.

14. In the early stage of project identification and design, proponents of projects to be submitted to ITTO are encouraged to conduct gender-sensitive stakeholder analysis to ensure that women's and men's different interests, roles and responsibilities are assessed in project identification, design and implementation.
15. Thematic programmes and projects should design gender equality related monitoring and evaluation indicators for planned outputs, outcomes and impacts..

Principle 4: Forest governance

Appropriate governance is a necessary condition for SFM.

(Principle 1, ITTO Voluntary Guidelines for the Sustainable Management of Natural Tropical Forests).

16. The relationships between environmental degradation, demand of natural resources by growing national populations, rural poverty and other development issues are very complex. Today there is abundant evidence that sustainable development and conservation of the environment and sustainable natural resources cannot be achieved only through the effort of a development project. Environmental issues need to be addressed through a more open multi-stakeholder approach, which relies on networking, partnerships, and institutional development. This can be achieved only where there is good governance, including transparency, accountability, and participatory approach.
17. For ITTO, accountability commitment implies that; (i) its projects should contribute to strengthening resource governance and decision-making systems in their area. This includes decisions that affect resource management and use, biodiversity and ecosystems, the rights of affected populations including women, indigenous peoples and local communities; (ii) proponents should include in their proposal plans of promoting broad participation, effective consultation, and recognition of fair and equitable rights is essential. Proponents should spell out how local communities will be aware of social safeguards; (iii) projects should have a mechanism to address communities' concerns and complaints in order to get them actively involved in the stakeholders' engagement process; and (iv) projects should spell out a sustainability plan to maintain and expand project results.

Principle 5: Security of tenure

Security of tenure is an essential element in building and maintaining community and household livelihoods and resilience.

18. ITTO is committed to avoid that its projects trigger land conflicts, or worsen unresolved issues concerning rights of tenure and rights of access to resources. For projects involving change in land use, proponents will need to assure that: (i) tenure and administration dimensions of the changes that projects may provoke, including issues of security of tenure and access to natural resources, compensation to communities or persons concerned, have been addressed; (ii) all legitimate tenure right holders and their rights will be respected, and reasonable measures will be taken to identify, record and respect legitimate tenure right holders and their rights, whether formally recorded or not; (iii) local people will be fairly and equitably compensated for any agreed land acquisitions and relinquishments of rights; (iv) local communities with legal or customary tenure or use rights maintain control, to the extent necessary to protect their rights or resources, over forest operations unless they delegate control with free and informed consent to other agencies; and (v) appropriate mechanisms will be employed to resolve disputes over tenure claims and use rights.
19. ITTO is also committed to ensure that its projects do not impact negatively Indigenous Peoples. Where their rights, territories, lands, resources, and traditional livelihoods may be affected, proponents should seek their full and effective participation, with the objective of securing their free, prior, and informed consent (FPIC).

3. ITTO'S MANAGEMENT OF ENVIRONMENTAL AND SOCIAL RISKS AND IMPACTS AT PROJECT LEVEL

20. ITTO in its development work emphasizes sustainability in all its field projects. ITTO's ESIA Guidelines underpin the Organization's commitment to environmental and social sustainability. They will be applicable to 8 key working areas that span most of its field projects, and for which eight standards can be defined as follows:

- ESS 1: Rehabilitation of degraded landscapes
- ESS 2: Timber producing forests
- ESS 3: Community-based natural resource management
- ESS 4: Biodiversity conservation in timber producing forests
- ESS 5: Watershed management areas and environmental services
- ESS 6: Forest-based climate change mitigation and adaptation
- ESS 7: Planted forests
- ESS 8: Forest industries and trade.

21. The description of the standards and respective requirements is given in chapter 4.

22. The ESIA process helps an institution to identify the critical social and environmental issues associated with a project, and ensures that positive impacts are optimized and negative impacts are avoided, minimized, mitigated and managed. Integrating ESIA considerations as early as possible in the process of project design allows avoiding or minimizing at an early stage of project design any potential negative impacts to the environment and society as a result of the activities to be implemented.

23. Figure 1 provides an overview of the typical ESIA process stages. It shows that ESIA is not a linear process; several stages are carried out in parallel and the assumptions and conclusions are revisited and modified as the ESIA progresses. The main stages of the process are:

- a) Screening for environmental and social risks identification and impact classification;
- b) Scoping;
- c) Environmental and social impact assessment;
- d) ESIA report and environmental and social commitment plan (ESCP);
- e) Disclosure of information and data to stakeholders;
- f) Approval and implementation;
- g) Monitoring and reporting.

3.2 Interaction with project design and proposal development

24. The interaction between the ESIA process, project design and decision-making process allows the ESIA to influence the project design. Figure 2 illustrates the interactions between impact assessment and other stages of ITTO project cycle. It should be emphasized that project planning continues throughout the assessment process in response to the identified impacts. The main ESIA stages and key sub-stages of some of them are briefly described in continuation.

3.3 Project screening for environmental and social risks identification and impact classification

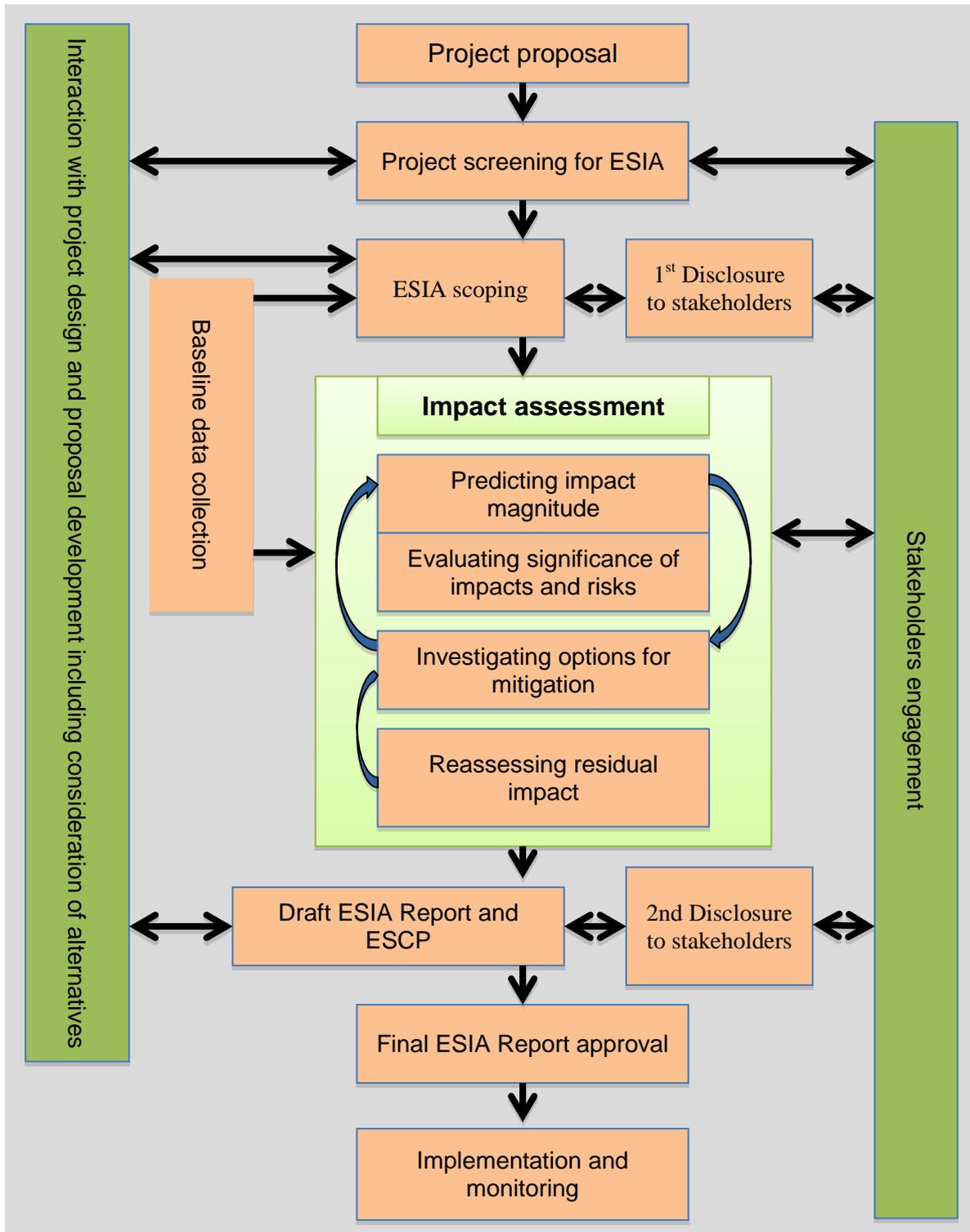
25. *Screening is the first step in the ESIA.* It establishes the basis for scoping stage and confirms whether there is need or not for a full ESIA by appraising the project activities throughout the project life in the context of its biophysical, socio-economic, policy and regulatory environments. It allows determining whether a full ESIA is needed, or if a Rapid Environmental and Social Assessment will be sufficient for the proposed project or if specialist studies are required.

26. *Identification of alternatives.* This may be a sub-stage of scoping stage. It assesses the reasonable alternatives to project activities with a potential to lead to adverse impacts and risks. It may include “no action” or “no project” alternative. The proponent should analyze alternatives and compare their feasibility, including the cost feasibility.
27. This stage of the process develops a preliminary assessment of the impacts likely to occur as a result of the proposed development, and which should be dealt with in the ESIA. The scoping phase must engage stakeholders to help identify issues. Their consultation allows ensuring that their views are taken into account throughout the ESIA process. A Stakeholder Engagement Plan (SEP) shall be established to outline and guide a project's stakeholder engagement strategy. It describes:
- The existing requirements for consultation and disclosure;
 - Priority stakeholder groups;
 - Strategy and timetable for sharing information with stakeholders;
 - Responsibilities and cost for implementing stakeholder engagement activities;
 - How stakeholder engagement activities will be included in the ESCP.

3.5 Scoping to identify potential sources of impact

28. Compliance with ITTO's ESIA Standards requires scoping and full disclosure of the Scoping Report. Scoping is a high level assessment of anticipated interactions between project activities and environmental and social receptors. A receptor is a location (e.g. a community, community group, habitat, species, watercourse) that may be adversely affected by a specific impact of the project. Scoping identifies key activities with the potential to cause or contribute to potentially significant impacts to physical, biophysical and social environment.. The exercise allows to:
- Identify the potentially most significant impacts;
 - Obtain stakeholders views on those potential impacts;
 - Review relevant policy, legal and administrative frameworks management system, relevant national and international legislation and guidelines
 - Identify and confirm the stakeholders
 - Initiate consultation with the stakeholders, identify and document their key concerns and obtain their agreement on the key issues to be addressed;
 - Identify data gaps and necessary work to fill these gaps with stakeholders collaboration
 - Where appropriate, identify potential mitigation measures for further analysis
 - Establish the work plan and Terms of Reference for the remainder of the ESIA process, through consultation ensuring that the ESIA process and respective recommendations are focused on the key issues.

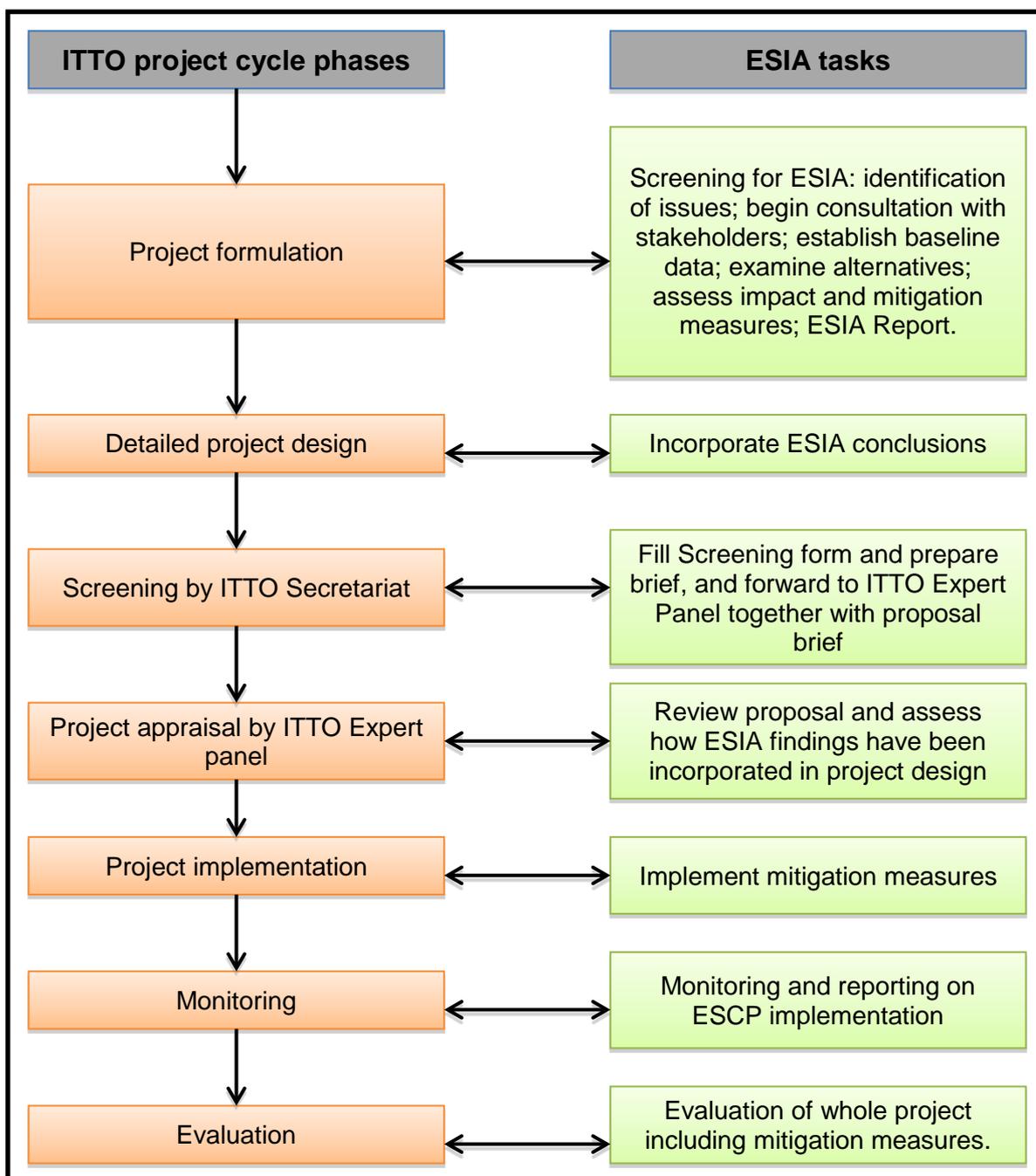
Figure 1: Overview of the ITTO ESIA process stages



29. One of the following five conclusions from the scoping process can be drawn:

- No ESIA is required;
- Full ESIA is required;
- A limited ESIA is required;
- A further study is necessary to determine the level of ESIA required.
- The proponent may decide not to proceed with the project formulation.

Figure 2: Interactions between risk and impact assessment and other stages of ITTO project cycle



30. To arrive at a conclusion to 'scope out' an activity, the expert judgment based on prior experience of similar activities can be used.
31. Based on the experience of its HQs projects staff, ITTO may ask the proponent to conduct an ESIA taking into account applicable principles in chapter 2 of these Guidelines, ITTO standards, other relevant international standards, and national legislation.
 - (a) **Baseline establishment.**
32. A good understanding of the baseline information is the key to understand the nature and significance of Project impacts and risks, and in feeding back to project design. ITTO requires the proponent to start establishing a baseline during the scoping phase. This can be done by literature reviews, or collecting data on the physical, biophysical and social environment in order to allow understanding what resources or values have the potential to

be significantly affected by the intended project. This requires describing the baseline conditions that have been used to assess the environmental and social impacts, in a way that allows to:

- Identify the conditions in areas and/or communities potentially affected by the intended project;
- Extrapolation the current situation and develop future scenarios without the project;
- Predict and evaluate of potential impacts of the intended project;
- Understand stakeholder concerns, perceptions and expectations regarding the proposed Project;
- Develop appropriate mitigation measures later in the ESIA process; and
- Provide a benchmark to assess future changes and to assess the effectiveness of mitigation measures.

(b) First disclosure to stakeholders

33. The objective of the ESIA scoping disclosure process is to allow stakeholders to provide feedback on the project. This allows stakeholders to address their comments and suggestions in writing to ESIA specialists and/or to propose after the scoping disclosure meeting has taken place. The following information will be provided:

- The purpose, nature, objectives and scale of the project;
- The duration of proposed project activities;
- Risks and potential adverse environmental and social impacts, for example with regard to community health, land use changes, expropriation, resettlement;
- Planning and venue of subsequent related meetings, including the second disclosure on ESIA information and data.

34. The proponent will ensure that access to information is enabled to stakeholders early enough before the start of the full ESIA process. The disclosure shall be made in the relevant local languages and in a manner that is accessible.

3.6 Assessment and management of social and environmental risks and impacts

35. The ESIA conducted in the ITTO's work context shall be in accordance with the present Guidelines. It has to follow a systematic process of predicting and evaluating the impacts that the project is expected to have on the physical, natural, cultural, social and socio-economic environment, and to identify measures that the proponent shall take to avoid, reduce, remedy, offset or compensate for adverse impacts, and to provide benefits. The overall approach to be used is shown in Figure 1.

36. The assessment of impacts is an iterative process. It addresses four aspects: impact prediction, impact evaluation, impact mitigation (including residual impact mitigation). With regard to these aspects, ESIA responds to the following questions:

- What will happen to the environment and people as a consequence of the potential impacts and risks associated to the Project?
- Do potential risks and impacts matter? How significant are they?
- If the impacts are significant can anything be done to avoid or to mitigate them?
- Will there still be significant residual risks/impacts/risks?

(a) Predicting impact magnitude

37. ESIA is a process that combines impact magnitude and receptor sensitivity to determine impact significance and to classify risk. Based on the baseline situation, it describes what will be affected by project activities by predicting the magnitude of impacts (both positive and negative) and quantifying these to the extent practicable. The term 'magnitude' is used as shorthand to encompass all the dimensions of the predicted environmental and/or social impact including:

- The nature of the change (what is affected and how);
- Its size, scale or intensity;

- Its geographical extent and distribution;
 - Its duration, frequency, reversibility.
38. With regard to human receptors, such as communities or community groups, the assessment of the magnitude of impacts takes into account their likely response to the change and their ability to adapt to and manage the impact and risks.
39. A grading of the magnitude of impacts must be provided taking into account all the relevant variables noted above. The following scale can be used:

- Negligible;
- Small;
- Medium; and
- Large.

(b) Evaluating significance of effects

40. An impact is significant if, in isolation or in combination with other impacts, it should, in the judgment of the ESIA experts, be reported in the ESIA report so that others can take it into account in making decisions on the project. The impact magnitude as described above can be considered with the resource/receptor sensitivity/vulnerability/importance in order to assign the significance of impact. The most used sensitivity/vulnerability/importance designations are:
- Low;
 - Medium; and
 - High.
41. The evaluation of impacts presented in the ESIA Report is based on the judgment of the ESIA team, informed for example by reference to legal standards, national policy, current international good practices and the views of stakeholders. The criteria for assessing the significance of impacts depend on the nature of issues and types of impact. They take into account whether the project activities will:
- Cause any legal or accepted environmental standards to be exceeded (e.g. air, water or soil quality, noise levels) or increase the likelihood of exceeding those standards;
 - Adversely affect protected values or ecosystem functions or features, such as nature conservation areas, protected fauna and flora, protected landscapes, historic features, water catchment areas, downstream communities livelihoods, etc.
 - Conflict with established government policy e.g. to reduce CO₂ and NO_x emissions, recycle waste, protect human rights.
 - Have beneficial effects on social, economic environment, e.g. creating jobs, benefiting the local community and economy.
42. Once the magnitude of impact and the sensitivity/vulnerability/importance of resource/receptor have been characterized, the significance for each impact can be designated using the matrix shown in Table 1. The different ratings of impact significance are interpreted as follows:
- Impact of ***negligible*** significance: is one where a resource/receptor (including people) will not be affected in any way by a particular project activity.
 - Impact of ***minor*** significance: is one where a resource/receptor will experience a noticeable effect, but the impact magnitude is sufficiently small (with or without mitigation) and/or the resource/receptor is of low sensitivity/ vulnerability/ importance.
 - Impact of ***moderate*** significance: is one that has an impact magnitude that is within applicable standards, but falls somewhere in the range from a threshold below which the impact is minor, up to a level that might be just short of breaching a legal limit.
 - Impact of ***major*** significance: is one where an accepted limit or standard may be exceeded, or large magnitude impacts occur to highly valued/sensitive resource/receptors.

43. Impacts of negligible or minor significance are considered as being mitigated and do not require further mitigation.

Table 1. Impact significance

| Magnitude of impact | Sensitivity/Vulnerability/Importance of Resource/Receptor | | |
|---------------------|---|------------|------------|
| | Low | Medium | High |
| Negligible | Negligible | Negligible | Negligible |
| Small | Negligible | Minor | Moderate |
| Medium | Minor | Moderate | Major |
| Large | Moderate | Major | Major |

44. The above categorization is based on studies allowing to evaluate both the magnitude of impact and the sensitivity/vulnerability/importance of resource/receptor. However, for most ITTO projects screening does not necessarily require full ESIA studies, and can be carried out on the basis of simplified guidance using checklists. This can be done quickly by experts with ESIA experience, based on the information which is readily available about the project and its environment. To this end, ITTO uses the preliminary project categorization approach summarized in the Box. The examples of projects and activities are given for each category in Annex 2 and the checklist with questions to be used for screening is given in Annex 3.

(c) Investigating options for mitigation.

45. In developing mitigation measures and actions, the first focus should be on those that will prevent or minimize impacts through the design and management of the project rather than on compensation measures. This is an example of approaches of using mitigation through design changes in order to develop the project in the most environmentally and socially sustainable way:

- Avoiding or reducing at source through the design of the project; example for project involving timber harvesting, adopt RIL to reduce river silting, or avoiding by siting polluting forest industry in sensitive urban area, or changing the time of noise activities.
- Where other mitigation approaches are not possible or fully effective, then compensation for loss, damage and disturbance might be appropriate (e.g. financial compensation for degrading agricultural land and impacting crop yields).

(d) Residual impacts.

Complete mitigation of an impact cannot always be achieved. Residual impacts are expected to remain after mitigation measures have been applied, and may need appropriate consideration. A residual impact is the impact that is predicted to remain once mitigation measures have been designed into the intended activity. The ESIA assesses the residual impacts of significance and presents mitigation measures. Where significant residual impacts or risks remain, other options for mitigation may be considered for implementation if they are technically and financially feasible for the project.

Box: Description of ITTO preliminary Project Categories for ESIA Screening

Category A: Proposal that is likely to have significant adverse environmental impacts that are sensitive, diverse, or unprecedented. A potential impact is considered "sensitive" if it may be irreversible (e.g., lead to loss of a major natural habitat) or affect vulnerable groups or ethnic minorities, involve involuntary displacement or resettlement, or affect significant cultural heritage sites. A full ESIA is required for a Category A proposals. It examines the project's potential negative and positive environmental impacts, compares them with those of feasible alternatives (including, the "without project" situation), and recommends any measures needed to prevent, minimize, mitigate, or compensate for adverse impacts and improve environmental performance.

Category B: Proposal that has potential adverse environmental impacts on human populations or environmentally important areas-including wetlands, forests, grasslands, and other natural habitats, but which are less adverse than those of Category A projects. These impacts are site-specific; few if any of them are irreversible; and in most cases mitigation measures can be designed more readily than for Category A projects. The scope of ESIA for a Category B project is narrower than that of Category A ESIA. Like Category A ESIA, it examines the project's potential negative and positive environmental impacts and recommends any measures needed to prevent, minimize, mitigate, or compensate for adverse impacts and improve environmental and social performance.

Category C: Proposal that is likely to have minimal or no adverse environmental or social impacts. Beyond screening, no further ESIA action is required for a Category C project.

In case full ESIA studies are conducted, potential impacts and risks will be first classified using Table 1 scheme. Decision on categorization will be as follows: (i) Impact and risks of Major significance will be Category A; (ii) Impact and risks of Moderate significance will be Category B; (iii) Impact and risks of Minor or Negligible significance will be Category C.

3.7 ESIA report and ESCP

(a) ESIA Report

46. The ESIA Report shall provide the background to the intended project as well as an assessment of its likely environmental and social impacts, both adverse and beneficial. Proposed mitigation measures against adverse impacts and, where applicable, enhancement measures for beneficial effects shall be outlined together with an initial costs estimate and description of the responsibilities for their implementation.
47. The indicative contents of ESIA Report are presented in Annex 5. The main headings are:
- Scoping;
 - Stakeholder engagement;
 - Baseline data collection;
 - Overall project description;
 - Assessment of impacts and identification of mitigation measures;
 - ESCP
 - Reporting and disclosure.

(b) Environmental and Social Commitment Plan (ESCP).

48. ESCP forms part of the ESIA and sets out the measures required to maximize the benefits of the project, avoid, minimize, mitigate or offset (in the case of environment) or remedy (in the case of social impacts) any adverse environmental and social impacts. The ESCP is expected to:

- Prevent the negative impacts that could be avoided;
 - Mitigate the negative impacts that could not be avoided but could be reduced;
 - Compensate/remedy the negative impacts that could neither be avoided nor reduced;
 - Enhance positive impacts.
49. For moderate and high-risk projects submitted by members to ITTO, an ESCP shall be developed and based on the findings of the ESIA and the outcomes of the consultation with affected communities, community groups, individuals or other relevant stakeholders. The ESCP shall describe the measures for mitigation of environmental and social impacts and risks, the performance improvement as well as the opportunities. The level of detail of the ESCP and the priority of the identified measures and actions shall be commensurate with the nature and magnitude of project's risks and impacts.
50. The proponent will address all compensatory and remedial measures in the ESCP. This implies that differentiated measures will be included so that adverse impacts do not fall disproportionately on stakeholders who were identified as disadvantaged, marginalized or vulnerable during the ESIA process. Where appropriate, the ESCP will also address the opportunities to achieve additional environmental and social benefits of the project. The minimum contents of ESCP shall be as follows:
- (1) Introduction
 - (2) Summary of Potential Impacts.
 - (3) Description of Planned Mitigation Measures
 - (4) Description of Planned Environmental and Social Monitoring
 - (5) Description of Public Consultation Process
 - (6) Description of the Responsibilities and Authorities for Implementation of Mitigation Measures
 - (7) Description of Responsibilities for Reporting and Review
 - (8) Work Plan and Staffing chart
 - (9) Cost estimates, sources of funding, and adequate institutional, monitoring reporting and accountability arrangements.

3.8 Second disclosure of information to stakeholders and grievance mechanism

(a) Second disclosure of information to stakeholders

51. The second disclosure of project and ESIA information will further enable stakeholders who are likely to be affected by adverse environmental or social impacts from the project, to understand the project's risks and impacts, but also the opportunities that may be available. The proponent shall provide stakeholders with expanded information and data, and this shall be done in appropriate and timely manner. The following information will be provided:
- The purpose nature, objectives and scale of the project;
 - The duration of proposed project activities;
 - Risks and potential adverse environmental and social impacts, for example with regard to community health, land use changes, expropriation, resettlement;
 - Mitigation plans;
 - Grievance mechanisms;
 - Planning and venue of any related meetings;

The second disclosure shall be made in the relevant local languages and in a manner that is timely and accessible. The proponent will ensure that access to information and data shall be maintained throughout the life of the project.

(b) Grievance mechanism for affected stakeholders

52. A grievance is an actual or perceived problem giving ground for complaint. The Grievance Mechanism is the process by which people affected by the project's activities can bring their comments, concerns and grievances to the Project Management Team. Proponents intending to submit proposal to ITTO shall seek to minimize grievances through designing to manage project impacts and through community liaison activities designed to anticipate and

address potential issues before they become grievances. Proponents shall develop a Grievance Mechanism whose purpose is to ensure that anyone with a concern about the project can voice it and get a response. Such a Mechanism shall:

- Address concerns promptly;
- Use an understandable and transparent process that is culturally appropriate and readily accessible to the affected groups, at no cost and without retribution;
- Guarantee confidentiality;
- Specify the time frames in which grievances should be resolved.

3.9 ESIA Report approval

53. After receiving the ESIA Report, ITTO Secretariat will conduct a final review of the document. If the ESIA process and Report meet the conditions of the present Guidelines and the proponent's country laws and regulations for that kind of project, the proponent shall be notified and may proceed with the project. If the report does not fulfill ITTO's requirements, either of the two things can be done:
- The proponent will be asked to do some further investigations on specified aspects. An independent environmental consultant can be contracted (at proponent's cost) to do this additional work.
 - If the ESIA reveals major adverse impacts, which cannot be mitigated, the project may be rejected.
54. If the ESIA report has been approved, the ESCP along with conditions of approval shall be included in the project documents.

3.10 Monitoring and reporting

55. The monitoring part of the ESCP is designed to determine the efficiency and effectiveness of mitigation measures and to verify predictions made at the ESIA stage. A monitoring system shall be setup in a way that allows determining whether mitigation measures are working as expected and have been implemented in accordance with the planned schedule. If the measures are not giving satisfaction, the proponent shall consider corrective measures.
56. Monitoring may include both "Baseline monitoring" and "compliance monitoring". For both environmental and social impact systems, baseline monitoring is carried out, for example, periodically to quantify ranges of natural variation or directions and rates of change that are relevant to impact prediction and mitigation. Compliance monitoring aims to check that specific regulatory standards and conditions are met Environmental and social requirements.

4. ENVIRONMENTAL AND SOCIAL REQUIREMENTS

4.1 ESS 1: Restoration and rehabilitation of degraded forest landscapes

4.1.1 Introduction

57. Forest degradation is damage to the chemical, biological and/or physical structure of a soil (soil degradation) and to the forest itself (forest degradation), as a result of incorrect use or management, and which, if not ameliorated, will reduce or destroy the production potential of a forest ecosystem (in perpetuity) (Nieuwenhuis², 2000).. The objectives of restoration and rehabilitation of degraded forests may include restoring natural ecosystems, watershed management, enhancing carbon stocks, restoring timber and NTFPs production potential, preventing soil erosion, restoring scenic beauty, etc. These objectives may be conflicting, which requires consensus among stakeholders.
58. Using conventional approaches of reforestation and rehabilitation may not deliver the multiple values of forests such as addressing the needs of all interest groups. ESS 1 is consistent with the ITTO Guidelines for the restoration, management and rehabilitation of degraded and secondary forests have been formulated to help communities realize that potential.

4.1.2 Objective of ESS 1

59. The objective of ESS 1 is to ensure that projects submitted to ITTO by members contain provisions allowing to avoid the risk that the proposed interventions of restoration and rehabilitation of degraded forests aggravate environmental degradation or worsen social conditions of local population whose livelihoods depend on those forests.

4.1.3 Scope of application

60. ESS 1 is about committing ITTO not support any project that may cause significant environmental or social harm in interventions aimed at restoring and rehabilitating degraded forests. It also gives guidance to proponents on how to enhance environmental and social services of degraded forest resources.

4.1.4 Requirements

61. **Using relevant ITTO Guidelines.** Proponents of projects for restoration and rehabilitation of degraded projects should make use of ITTO's relevant guidelines, namely "ITTO guidelines for the restoration, management and rehabilitation of degraded and secondary tropical forests".
62. **Social aspects are important for long-term success of restoration and rehabilitation interventions.** The realities of poor rural communities living in degraded forests, and the networks of informal use rights often characterize the relationship between people and forests, particularly among ethnic minorities dwelling in forest areas. Where there is lack of clarity of tenure and use rights, the proponents of rehabilitation projects to be submitted to ITTO should plan for viable alternatives that communities concerned can accept with confidence.
63. **Involving local communities in project design process.** To ensure the long-term sustainability of the project results and to create a sense of ownership of project results by the local communities, the project proponents should involve them from the very beginning. Maintaining existing biodiversity and ecosystem functions: project proponents should include in the proposals provisions to ensure that the degraded forest rehabilitation projects will maintain or enhance biodiversity and ecosystem functions.
64. **Avoid interventions that may cause involuntary resettlements.** Relocations of populations or the restriction of their access to resources due to project interventions can

² Nieuwenhuis, M. 2000. Terminology of forest management. IUFRO World Series Volume 9. IUFRO 4.04.07, International Union of Forestry Research Organizations, Vienna, Austria.

have negative impacts on rural communities. Proponents of rehabilitation projects should avoid relocations as the best scenario. If resettlement is unavoidable, they should plan to minimize and mitigate its negative impacts or identify and support adequate alternatives.

65. **Compensating negatively affected communities and persons.** Communities that are negatively affected by projects for rehabilitation of degraded forests should be adequately compensated and their livelihood needs integrated into the project in order to ensure its long-term success.
66. **Support local organizations.** For community-based rehabilitation interventions, support to local organizations to carry out the management operations is essential. Where effective local organizations are not established, the proponent could envisage assisting beneficiaries to establish such organizational arrangements before the start of rehabilitation activities.
67. **Foster the degraded forest restoration and rehabilitation practices that are socially acceptable and economically feasible.** The proponents should recognize the importance of traditional forest uses for people living in and around degraded forests, on which they have a close dependence and have deep knowledge of their functions and wealth, and a vested interest in their sustainable use.

4.2 ESS 2: Managing tropical-timber producing forests

4.2.1 Introduction

68. Harvesting operations in tropical timber producing forests imply opening road infrastructure that is needed to extract the timber, causing damage to standing stock and natural regeneration by tree felling, and affecting biodiversity in many ways. The particular impacts of road construction, transport to sawmills, accommodation of forest workers, etc. are described by Arets and Veeneklaas (2014). ITTO's "Voluntary guidelines for the sustainable management of natural tropical forests" contains detailed elements that can guide forest operations to avoid this kind of impacts. ESS 2 is consistent with these Guidelines as it fits well in the SFM continuum that starts from project identification and continues to forest management planning, and management plan implementation..

4.2.2 Objectives of ESS 2

69. The objectives of ESS 2 are (i) to provide minimum requirements of sustainable forest management relevant to tropical timber producing forests that allow to avoid negative environmental and social impacts that may result from excessive timber harvesting and unsustainable forest management; (ii) to provide a basis for assessing proposals submitted to ITTO by its Members for funding tropical forest management interventions to be carried out in the context of tropical timber producing forests.

4.2.3 Scope of application

70. ESS 2 is applicable to planning and management of tropical timber producing forests within the wider landscape and land-use context, and to timber harvesting operations and forest management activities conducted in those forests.

4.2.4 Requirements

71. **General requirements.** Project proponents are encouraged to ensure that the following general requirements are met:
 - Analysis of environmental, social and climate risks;
 - Provisions for continual improvement in SFM performance.
 - Continuously satisfying the needs for goods and services provided by forests; ensuring the conservation of forest soils, water and carbon stocks;
 - Conserving biological diversity;
 - Sustaining the resilience and renewal capacity of forests, including carbon storage;
 - Supporting the food security and livelihood needs of forest dependent communities;
 - Ensuring an equitable sharing of the responsibilities and the benefits from forest uses.

72. **Stakeholder identification and analysis.** Mapping the different groups of stakeholders creates the basis for identifying those who have human rights entitlements related to the project, as well as for identifying the entities accountable for these entitlements. It is also a valuable exercise for distinguishing between rights and interests in an operation and ensuring respect for the former, given they constitute a primary responsibility for the proponent..
73. **Stakeholders consultation and participation.** The proposal submitted to ITTO should provide evidence that stakeholders have meaningfully been engaged in consultation process in the project identification stage. In conformity with the principles of participation, non-discrimination and transparency, the proponent will provide vulnerable groups as early as possible with all the relevant information about the project (including an assessment of potential adverse effects and projected benefits from the project).
74. **SFM performance requirements.** SFM performance is about the assessable results as measured by the level of achievement of the targets set in specific references, such as ITTO Criteria and Indicators, and national sector-specific requirements. In this regard, the project should comply with national/local sector-specific SFM performance targets relating to tropical timber producing forests. The proponents are also encouraged to assess the impacts of climate change and climate variability on tropical timber producing forests and evaluate the risks.
75. **Reduced impact logging (RIL).** Logging operations are usually the most intensive and potentially most damaging forest operations. They can also have a very significant impact on the forest resources and surrounding ecosystems, and to forest-dwelling people. Good management systems must therefore be combined with care for people and the environment. Proponents of projects with timber harvesting activities are encouraged to consider applying RIL techniques in order to minimize mechanical disturbances to forest soils that may be caused by harvesting operations.

4.3 ESS 3: Community-based natural resource management

4.3.1 Introduction

76. Natural resources are the foundation from which the rural poor people and forest dwelling communities can overcome poverty. For these populations, overcoming poverty means also protection from the risks of negative impacts on their resources and impacts that development projects may cause, particularly those which would reduce their income-generating capacities or decrease their livelihoods opportunities.
77. It is often believed that projects focusing Community-based natural resources management (CBNRM) can allow to avoid negative social impacts to local communities who depend on natural resources. CBNRM is a shift from the predominantly centralized natural resource management towards more devolved models. CBNRM models work to strengthen locally accountable institutions for natural resource use and management, empower local communities or groups within communities, to make better decisions about the use of natural resources. Based on the potential of and the constraints on CBNRM strategy implementation, ESS 3 provides minimum requirements that would allow avoiding, minimizing and mitigating adverse environmental and social impacts that may result from that implementation.

4.3.2 Objective of ESS 3

78. The objective of ESS 3 is to anticipate and avoid the risks of: (i) conflicting land uses as far as conservation, sustainable resource management, forest harvesting and other objectives are concerned; (ii) degradation in the livelihoods of those who live with, and are managing, the natural resources.

4.3.3 Scope of application

79. The requirements of ESS 3 apply to CBNRM and joint forest management projects that may pose significant environmental and social risks. The applicability of this standard is established during the screening process.

4.3.4 Requirements

80. **Addressing community weaknesses for management.** Often communities lack necessary skills and capital to develop their resources and link to markets. The situation may be aggravated by unequal community-private sector partnerships. The proponents of CBNRM projects should plan the establishment of transparent, equitable and equal partnerships between the community and the private sector in order to ensure success of the resource-based business.

81. **Ecological status of the resources:** CBNRM strategy does not give the same success in all conditions. CBNRM projects proponents should study carefully if in their contexts the conditions for success are fulfilled. Experience has shown that this strategy works best in those environments that are relatively intact and provide opportunities for generating substantial financial incentives. On economic incentives: to ensure success of CBNRM projects, proponents should include in the proposals measures to ensure economic incentives to the stakeholders. Such measures could be cash dividends paid by community associations to their members, or indirect benefits from the forests such as timber households needs.

4.4 ESS 4: Biodiversity conservation in timber producing forests

4.4.1 Introduction

82. Timber producing forests can be valuable for biodiversity with appropriate protection and management. They should be managed in a way that conserves or enhances biodiversity, and opportunities for enhancing biodiversity should be considered in forest management plans. Where timber-producing forests fall short of the "ITTO/IUCN Guidelines for the Conservation and sustainable use of biodiversity in tropical timber production forests", improvements should be made when suitable management opportunities arise.

4.4.2 Objective of ESS4

83. The objective of ESS 4 is for ITTO to ensure that proponents of projects in relation to management of tropical timber producing forests commit themselves to maintaining or enhancing biodiversity in accordance with the relevant Organization's Guidelines.

4.4.3 Scope of application

84. ESS 4 applies to all projects submitted to ITTO for funding of interventions relating to tropical timber production forests or to protected areas such as Transboundary Biodiversity Conservation Areas (TBCAs).

4.4.4 Requirements

85. **Identifying biodiversity conservation objectives.** Project proponents should identify clearly and explicitly biodiversity conservation objectives for the targeted area. These objectives should recognize and reflect the biodiversity values and possible tradeoffs amongst key stakeholders, including local communities.

86. **Applying landscape approaches.** As project activities and local land use choices interact with and impact upon biodiversity conservation, proponents should consider applying landscape approaches to ensure that off-site and upstream-downstream impacts are monitored and managed. **Mitigation of human-wildlife conflicts.** Project proponents should consider including in the proposals provisions to reduce the risks and mitigate the impacts of human-wildlife conflicts that might arise from logging activities.

87. **Avoiding adverse impacts to critical habitats or environmentally sensitive areas.** Project interventions should not cause adverse impacts to critical habitats or environmentally

sensitive areas such as protected areas, national parks, planned protected areas, areas inhabited by indigenous people or local communities. **Risk to endangered species and risks to introducing invasive alien species.** Planned project activities should not pose risks to endangered species or risks of introducing invasive alien species.

4.5 ESS 5: Watershed management areas

4.5.1 Introduction

88. Watershed management is a pathway for safeguarding ecosystem services and biodiversity. As the application of land resource management systems, it is considered to be the most appropriate approach to ensuring the preservation, conservation and sustainability of all land-based resources and improving the living conditions of people in the uplands and lowlands³. Integrated watershed management with participation of all the relevant key actors has become widely accepted as the approach best suited for sustainable management of renewable and non-renewable natural resources in upland areas.

4.5.2 Objective

89. The objective of ESS 5 is to provide minimum requirements for effective watershed management projects submitted by ITTO members for funding. The requirements are aimed at anticipating and avoiding the risks of adverse environmental and social impacts both in upstream and downstream zones.

4.5.3 Scope of application

90. ESS 5 applies to all projects interventions in watershed management or components of watershed management in other types of projects, such those relating to management of timber production forests or rehabilitation of degraded forests.

4.5.4 Requirements

91. **Identification of key watershed actors.** Watershed management requires the identification, involvement and awareness of a wide range of stakeholders in both planning and implementation, particularly where watershed rehabilitation is the objective. **Protection of human health and the environment.** Proponents should describe in the proposal plans to ensure maintenance or improvement of water quality and water flow as they apply to protection of human health and environment.
92. **Addressing gender issues in the watershed environment. Gender issues** are a part of watershed management projects, and promoting the involvement of men and women in implementing watershed activities is essential for project effectiveness. **Clarifying the critical role of access and use rights of watershed resources.** Local communities and forest dwelling communities interact with the natural resources in the watershed for various purposes, and the common property resources **play an important role in their lives, whether they are grazing lands or common** water sources and water-harvesting structures or forests.
93. **Ensure equitable sharing of benefits and costs.** Proponents should develop in the proposals approaches for promoting the equitable sharing of costs and benefits between resource-poor people and better-off community members, and between upstream and downstream users.

³ Tennyson, Larry (2005). Review and assessment of watershed management strategies and approaches. In FAO (2005). Preparing for the next generation of watershed management programmes and projects – Africa. Proceedings of the African Regional Workshop Nairobi, Kenya 8-10 October 2003. <ftp://ftp.fao.org/docrep/fao/009/a0270e/A0270E03.pdf>.

4.6 ESS 6: Forest-based climate change mitigation and adaptation

4.6.1 Introduction

94. The risks that climate change and variability pose to forests and trees, and its negative impacts are increasingly recognized. Article 1.1 of the UNFCCC states that climate change not only affects adversely the natural and managed ecosystems, but also has "significant deleterious effects" on the "operation of socio-economic systems or on human health and welfare." Therefore, parties shall not only consider climate change in economic and environmental terms, but also take climate change into account "in their relevant social [...] policies and actions." While forests can cushion against climate change, they are also vulnerable, and as forests are vulnerable, so will the forest-dependent social and economic systems that depend upon them. Thus, while pursuing the roles of forests and SFM in mitigating climate-based risks (including the role of SFM in disaster risk reduction), attention should also go to the vulnerabilities of the forests themselves.
95. The "ITTO Voluntary Guidelines for the Sustainable Management of Natural Tropical Forests" also describe how forests are affected biophysically by climate change. Over time, climate-related change could have significant impacts on the availability and quality of forest goods and ecosystem services and on the people who depend on natural tropical forests for their livelihoods. Forest managers should be aware of such impacts and take early measures to reduce the vulnerability of forests, to increase forest resilience and facilitate their adaptation to changing conditions.

4.6.2 Objective of ESS 6

96. The objectives of ESS 6 are (i) to ensure that proposals submitted to ITTO contribute to regulating GHG emissions from forests through SFM, REDD+ and other mitigation and adaptation measures; and (ii) to reduce and mitigate the impact of climate change on forests and social and economic systems with ESIA.

4.6.3 Scope of application

97. ESS 6 applies to all projects that may produce significant GHG emissions, have development results that may be threatened by climate change or those that may contribute to increased vulnerability of communities or forest ecosystems to climate change.

4.6.4 Requirements

98. **Supporting transparent, inclusive, and accountable forest governance.** If forest-based activities are to help in climate change mitigation and adaptation, project barriers to improved governance must be identified and processes established to empower the disenfranchised, including Indigenous Peoples. **Encouraging local processes to clarify and strengthen tenure, property, and carbon rights.** The rights to and tenure of forests are often poorly defined and, in particular, the rights of customary owners are seldom given full recognition. Proponents should be aware that Indigenous Peoples, forest owners, **the forest workforce, and local communities are increasingly concerned that their rights** to control and benefit from forest-based carbon will be nationally and internationally unacknowledged.
- **Making climate change risk assessment an integral part of the social and environmental assessment process.** Proponent should ensure that proposals submitted to ITTO are screened and assessed for climate change-related risks and impacts. Where it may be relevant, they should consider some of the following measures and actions including Full and effective participation of relevant stakeholders; and actions consistent with the conservation of natural forests and biological diversity.,

4.7 ESS 7: Planted forests

4.7.1 Introduction

99. Demand for forest-based products will likely grow with the rising population and income, particularly in developing countries. Planted tropical forests can contribute to meeting this demand. However, converting natural forests to tree plantations is also a significant source of GHG emissions. Deforestation and land conversion and global carbon emissions. ESS 6 provides requirements for avoiding, minimizing and mitigating the potentially negative environmental and social impacts of forest plantations.

4.7.2 Objective of ESS 7

100. The objective of ESS 7 is to provide guidance on approaches and measures to to avoid impact of plantations to environment and social impacts, and to provide guidance to proponents of on projects aimed at successful establishment and sustainable management of plantation to enhance the contribution of forestry to rural poverty reduction and global environmental protection.

4.7.3 Scope of application

101. ESS 7 applies to forest plantation projects or plantation components of other types of projects such as interventions in the area of rehabilitation of degraded forests.

4.7.4 Requirements

102. **Description of the existing social and environmental baseline.** The project proponent should provide information collected on the past and present project contexts in order to provide a picture of social, economic and environmental trends resulting from the current state of the environment, the current socio-economic conditions in the region, the planting activity and changes which may occur as a result of planned plantations.

103. **Description of land use and land tenure.** Proponent should be aware of the need to have an integrated approach to land use management, recognizing and reconciling competing interests. **Prediction and evaluation of significant social and environmental impacts. Mitigation / offset measures** should be provided with the likelihood of success of the mitigation measures proposed to alleviate the impacts, and the residual and/or cumulative effects.

104. **Primary forests should not be converted to plantations.** Establishment of forest plantations should not take place on existing primary forests. Degraded forests can be successfully rehabilitated and managed sustainably using appropriate native and/or exotic species.

105. **Benefits to local communities. The local** communities living in the vicinity of the plantation project area should **derive significant benefits from** plantation management activities. Such activities include income from planting operations, silviculture, fire prevention and control, and harvesting.

106. **Environmental and social management and monitoring plans.** Proponents should provide a framework for managing and monitoring impacts during the project life.

4.8 ESS 8: Forest industries and trade

4.8.1 Introduction

107. Forest industries may have several types of impact on the environment and society, including: (i) depletion through overuse or inappropriate use of natural resources; and (ii) pollution through inefficient production processes and waste generated by production processes and (ii) the chemicals used; (iv) threats to health of neighboring communities; (v) inadequate labor conditions; (vi) insufficient value addition; (vii) overreliance on non-renewable energy. ESS 8 recognizes that development of sustainable tropical forest industries and promoting tropical timber trade are essential for productive employment, poverty reduction and achieving economic development in developing producer countries.

4.8.2 Objectives of ESS 8

108. The Objective of ESS 8 is to provide a tool that may help proponents of projects in forest industry to anticipate, avoid or minimize, and effectively mitigate risks and adverse impacts to environment and to human health and safety within the project's area of influence.

4.8.3 Scope of application

109. ESS 8 applies to Projects that may pose significant environmental risks and risks to human health and safety and to Projects that seek to strengthen employment and livelihoods.

4.8.4 Requirements

110. **Adequate screening of project activities.** More than in most projects, the proponents of forest industry projects should ensure that proposed activities are screened and assessed for potential risks of negative impacts to environment and human health. If significant potential risks are identified, ITTO will require further scoping and assessment of vulnerability, potential impacts, avoidance and mitigation measures, including consideration of alternatives to reduce potential risks.
111. **Encouraging operators responsibility.** The proponent should plan in the proposal activities to build capacity of forest industry operators and to develop institutional mechanisms for monitoring forest harvesting and forest industries. This should be a priority where such mechanisms are weak.
112. **Projects with significant risk of GHGs emissions.** The proponent of projects with significant GHGs emissions should ensure that alternatives are considered and that technically and financially feasible and cost-effective options to reduce project-related GHG emissions and intensity are adopted in a manner appropriate to the nature and scale of the project's operations and impacts.
113. **Community health and safety.** The proponents should evaluate the risks to, and potential impacts on, the safety of affected communities during the design, construction and operation. They should show clear plans for establishing preventive measures that are commensurate with the identified risks and impacts. These measures will favor the prevention or avoidance of risks and impacts over their minimization and reduction. Infrastructure safety: For Projects with structural elements or components whose failure or malfunction may threaten the safety of communities, the proponent will ensure that: (i) plans for project expert supervision, operation, and maintenance are developed and monitored; (ii) independent expertise on the verification of design, construction, and operational procedures is used; and (iii) periodic safety inspections are carried out. Emergency preparedness: The proponents are encouraged to include in the proposal how relevant authorities and third parties will be prepared to respond to accidental and emergency situations in a manner appropriate to prevent and mitigate any harm to people and/or the environment. Pollution prevention: The proponent will include in the proposal plans for avoiding the release of pollutants, and when avoidance is not feasible, minimizing and/or controlling the intensity and mass flow of their release. This applies to the release of pollutants to air, water, and land.
114. **Waste management.** The proponent will include in the proposal plans for preventing waste generation and how to reduce its hazardousness to human health and the environment, ensuring high quality of reusing, recycling, and recovering, .

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ANNEX 1: GLOSSARY OF KEY TERMS

Affected community. Local community at risk of impacts from a project.

Area of influence. Area affected by a project for the analysis of impacts; includes primary project sites, those of associated facilities, and areas affected by cumulative impacts.

Baseline data. Data that describe issues and conditions at the inception of the ESIA. Serves as the starting point for measuring impacts, performance, etc, and is an important reference for evaluation. (OECD, 2006).

Baseline studies. Studies conducted to establish the conditions at a specific period in time, to enable predictive and comparative studies to be conducted in the future in order to determine whether there is a predicted impact.

Consultation. A two-way communication process between projects and affected communities; should be based on a plan that is culturally sensitive and provides feedback and responses.

Cumulative impacts. Incremental impact of an action when added to other past, present or reasonably foreseeable actions regardless of what agency or person undertakes such actions. Cumulative impact can result from individually minor but collectively significant actions taking place over a period of time (OECD, 2006).

Environmental & Social Impact Assessment (ESIA). A process, applied mainly at project level, to improve decision-making and to ensure that development options under consideration are environmental and socially sound and sustainable. ESIA identifies, predicts and evaluates foreseeable impacts, both beneficial and adverse, of public and private development activities, alternatives and mitigating measures, and aims to eliminate or minimize negative impacts and optimize positive impacts. (OECD, 2006).

Environmental and social risk. The possibility that environmental, social, health and safety, governance or specific factors may affect environmental and social sustainability of the operation.

Equator principles (EPs). It is a risk management framework, adopted by financial institutions, for determining, assessing and managing environmental and social risk in projects and is primarily intended to provide a minimum standard for due diligence to support responsible risk decision-making. Currently 80 Equator Principles Financial Institutions (EPFIs) in 35 countries have officially adopted the EPs, covering over 70 percent of international Project Finance debt in emerging markets. EPFIs commit to implementing the EP in their internal environmental and social policies, procedures and standards for financing projects and will not provide Project Finance or Project-Related Corporate Loans to projects where the client will not, or is unable to, comply with the EP.

ESIA process. A systematic approach to the evaluation of environmental and social risks and impacts of a project and its associated activities throughout the project lifecycle. The process includes: screening and scoping, project alternatives; existing environmental and socio-economic conditions; impact assessment, residual impact identification, disclosure and stakeholder consultation; and mitigation and monitoring.

Free, prior, and informed consent (FPIC). It is the right of indigenous peoples to make free and informed choices about the development of their lands and resources. The basic principles of FPIC are to ensure that indigenous peoples are not coerced or intimidated, that their consent is sought and freely given prior to the authorization or start of any activities, that they have full information about the scope and impacts of any proposed developments, and that ultimately their choices to give or withhold consent are respected. (Ward, 2011)

Grievance. A concern or complaint raised by an individual or a group within communities affected by company operations. Both concerns and complaints can result from either real or perceived impacts of a company's operations, and may be filed in the same manner and handled with the same procedure. The difference between responses to a concern or to a

complaint may be in the specific approaches and the amount of time needed to resolve it (IFC, 2009).

Impact. Any change to the physical or social environment, whether adverse or beneficial, wholly or partly resulting from project activities.

Information disclosure. Process of providing information to affected communities & other stakeholders that is timely, accessible, and understandable and in appropriate form (language).

Receptor. A location or a group (e.g. a community, habitat, species, watercourse) that may be adversely affected by a specific impact of the project.

Scoping. A procedure for narrowing the scope of an assessment and ensuring that the assessment remains focused on the truly significant issues or impacts.

Screening. A process to determine the nature and extent of the ESIA or environmental analysis to be carried out.

Stakeholder engagement. Process of engaging with communities and stakeholders through two-way communication and some shared decision-making on project impacts and management.

Social impacts. The consequences to human populations of any public or private actions that alter the ways in which people live, work, play, relate to one another, organize to meet their needs, and generally cope as members of society. Social impacts include changes in people's way of life, their culture, community, political systems, environment, health and wellbeing, their personal and property rights and their fears and aspirations (Center for Good Governance, 2006).

Social sustainability. It can be broadly defined as the maintenance and improvement of well-being of current and future generations (Chiu, 2003). According to McKenzie, (2004) this should incorporate equity of access to key services (including health, education, transport housing and recreation), as well as equity between generations, meaning that future generations will not be disadvantaged by the activities of the current generation. Barron and Gauntlett (2002) provide the following social sustainability goals: (i) Equity: Equitable opportunities and outcomes; (ii) Diversity: Promotion and encouragement of diversity and value of difference; (iii) Interconnectedness: Community processors, systems and structures that promote connectedness within and outside the community; (iv) Quality of life: Insurance that the communities basic needs are met; and (v) Democracy and governance: Democratic processors, open and accountable governance structures.

Vulnerable groups. People within the project's area of influence who could be disproportionately impacted due to their disadvantaged or vulnerable status (e.g., age, gender, ethnicity, poverty).

ANNEX 2: PRELIMINARY CATEGORIZATION OF PROJECTS

CATEGORY A PROJECTS

Those that are likely to:

- Be incompatible with national or international laws, commitments, treaties, and agreements
- Have adverse impact on gender equity or inter-generational equity
- Cause over-exploitation of forest resources
- Have adverse social impacts
- Have adverse cultural impacts in relation to culture and traditions of indigenous people and forest dwellers
- Increase soil erosion
- Affect human needs and health by affect water recharge and water quality
- Inhibit forest regeneration
- Damage habitats of protected species or other biodiversity
- Establish new road access to the forests
- Obstruct integrity of life in the forest
- Affect sources of income for local people
- May create or worsen land conflicts
- Introduce new species or technologies for which there is no local knowledge
- Use chemicals outside the provisions of the Rotterdam Convention
- Produce excessive quantities of GHGs

CATEGORY B

The following types of projects

- Projects involving forest harvesting and industrial timber transformation
- Interventions that do not create opportunities for women's empowerment and participation in decision-making, worsen the condition of marginalized groups, the elderly, the disabled and the youth, or do not safeguard the rights of indigenous communities and forest dwellers
- Projects that contribute to unequal distribution of resources between men and women, and between other social groups
- Watershed management or rehabilitation projects
- Climate change adaptation projects
- Projects involving land use changes
- Projects that may have adverse impacts on physical cultural resources and on the potential of tourism development
- Projects involving the use of chemicals or biotechnologies
- Projects that may have impact on biodiversity.

CATEGORY C

The following projects and activities:

- Monitoring and evaluation exercises.
- Desk studies;
- Conferences, workshops, meetings.
- Field surveys, forest inventories
- Development research, except activities or projects that may involve use of chemicals or biotechnologies
- Remote sensing and geospatial analysis

- Capacity development, training
- Minor construction activities
- Maintenance of installations
- Institutional development
- Support to value chain development activities and to the development of income-generating activities.

ANNEX 3: PROJECT ENVIRONMENTAL AND SOCIAL IMPACT ASSESSMENT (ESIA) SCREENING CHECKLIST

For use by member countries, ITTO secretariat, and ITTO Expert Panel to determine the ESIA of forestry projects as part of the screening/scoping processes. Only available data and information will be evaluated for filling up this checklist.

For each question only 1 of 4 boxes must be checked: Not Applicable (N/A), No, Yes or Unknown.

Would the project, if implemented? Not Applicable No Yes Unknown

I. ITTO VISION/STRATEGIC OBJECTIVES

- Be in line with ITTO's vision?
- Be consistent with ITTA 2006 objectives
- Be supportive of ITTO's strategic action plan objectives?
- Be complimentary with other ITTO technical project manuals?

II. ITTO KEY PRINCIPLES FOR FOREST SUSTAINABILITY AND TRADE

- Improve sustainable forest management?
- Conserve, protect and enhance forest resources?
- Protect and improve rural livelihoods and social well-being?
- Enhance resilience of people, communities and ecosystems?
- Include responsible and effective governance mechanisms?
- Endure that adverse social and environmental risks and impacts are avoided, minimized, and mitigated?

III. ESIA OF ITTO FORESTRY PROJECTS

ESS 1: Restoration and rehabilitation of degraded landscapes

- Will the objectives of restoration and rehabilitation of degraded forests result in restoring natural ecosystems, watershed management, enhancing carbon stocks, restoring timber and NTFs production potential, preventing soil erosion, restoring scenic beauty, etc.?

ESS 2: Timber producing forests

- Will this provide minimum requirements of sustainable forest management relevant to tropical timber producing forests that allow avoidance of negative environmental and social impacts that may result from unsustainable timber harvesting and unsustainable forest management?

ESS 3: Community-based natural resource management

- Will this avoid the risks of (i) conflicting land uses as far as conservation, sustainable resource management, forest harvesting and other objectives are concerned; (ii) degradation in the livelihoods and socioeconomic well-being of those who live with, and are managing, the natural resources?

ESS 4: Biodiversity conservation in timber producing forests

- Will this result to the maintenance and enhancement of biodiversity of species and ecosystems in production and protection forests?

ESS 5: Watershed management areas and environmental services

- Will this provide minimum requirements for effective watershed management and avoiding the risks of adverse environmental and social impacts both in upstream and downstream zones.

ESS 6: Forest-based climate change mitigation and adaptation

- Will this ensure that proposals submitted to ITTO contribute to regulating GHG missions from forests through SFM, REDD+ and other mitigation and adaptation measures; and reduce and mitigate the impact of climate change on forests and social and economic systems with ESIA.

ESS 7: Planted forests

- Will this avoid impact of plantations to environment and social impacts, and provide guidance to aimed at successful establishment and sustainable management of plantation to enhance the contribution of forestry to rural poverty reduction and global environmental protection?

ESS 8: Forest industries and trade

- Will this allow the forest industry to anticipate, avoid or minimize, and effectively mitigate risks and adverse impacts to environment and to human health and safety within the project's area of influence?

ANNEX 4: GENDER MARKER CODES

| Gender Marker | Meaning | Description |
|---------------------------------------|---|---|
| Gender code 0 | No visible potential to contribute to gender equality | Gender is not reflected in the proposal or only appears in the outcomes. There is a risk that the project will unintentionally fail to meet the needs of some population groups and possibly even do some harm. These projects are considered “gender blind”. |
| Gender code 1 | Potential to contribute in some limited way to gender equality. | Gender dimensions appear in only one or two outputs of the proposal, i.e. in the needs assessment, activities or outcomes. |
| Gender Code 2a - Gender Mainstreaming | Potential to contribute significantly to gender equality. | A gender analysis is included in the project’s needs assessment. It is reflected in one or more of the project activities and one or more of the project outcomes. |
| Gender Code 2b - Targeted Action | The project’s principal purpose is to advance gender equality. | The gender analysis in the needs assessment justifies this project, in which all activities and outcomes advance gender equality. |
| Gender Code: Not Applicable N/A | | This project does not have direct contact with affected people, and it does not directly affect or determine the selection or use of resources, goods or services accessed by affected people. |

(Adapted from: OCHA (2012). OCHA Gender Toolkit. Tools to help OCHA address gender equality. https://docs.unocha.org/sites/dms/documents/gendertoolkit1_121205_5_ver7.pdf)

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